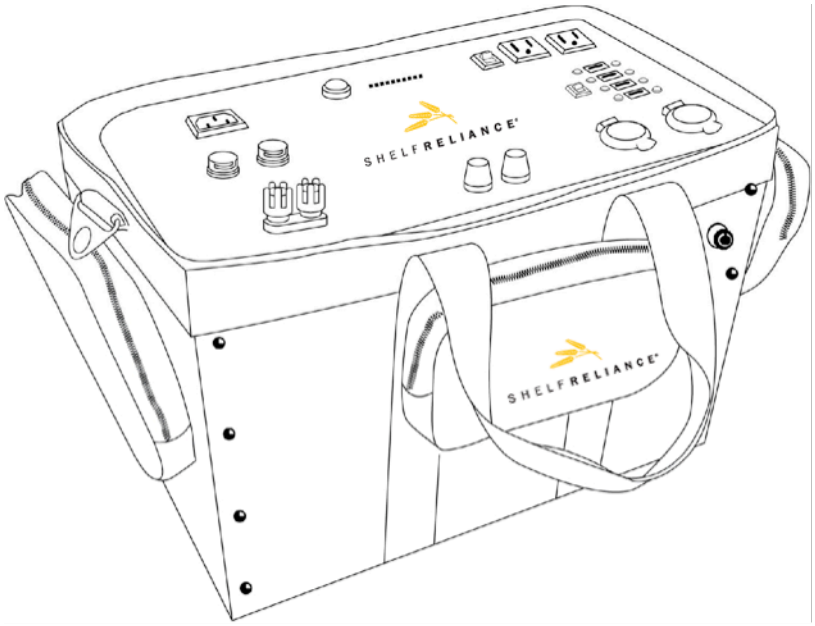
# Power Station 1000

# USER MANUAL

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# Table of Contents

Introduction – 1

Safety – 2

Orientation – 3

First-time Setup – 5

Charging Your Sentinel – 6

Powering Your Devices – 7

Regular Use / Maintenance – 8

Frequently Asked Questions – 9

Troubleshooting – 10

Technical Specifications – 11

Contact Us – 12

# Introduction

**The purpose of this user manual is to teach you how to use your Power Station 1000, and how to operate it safely. This user manual is intended to be read and referenced by anyone intending to use a Power Station 1000.**

# WARNING!

**Improper use or operation of the Power Station 1000 can present dangerous electrical and/or fire hazards. Before attempting to use or operate the Power Station 1000, users should have a basic understanding of electrical safety and be able to read and understand the directions in this manual.**

**The Power Station 1000 User Manual is divided into three main parts: Safety and orientation; Operating Instructions; FAQs and troubleshooting.**

**Safety and Orientation (pp. 2-3)**

- **The Power Station 1000 contains a high-powered battery pack, which presents potential safety hazards if misused or operated incorrectly. Following the Safety and Orientation instructions will help ensure safe and reliable operation.**

**Operating Instructions (pp. 5-8)**

- **Read the Operating Instructions to learn how to safely set-up, charge and use your Power Station 1000. The Operating Instructions includes tips to maximize the life of your Power Station 1000.**

**FAQs and Troubleshooting (pp. 8-9)**

- **This section offers answers to the most frequently asked questions about the Power Station 1000, and offers troubleshooting and fixes to the most commonly encountered technical problems.**

# Safety

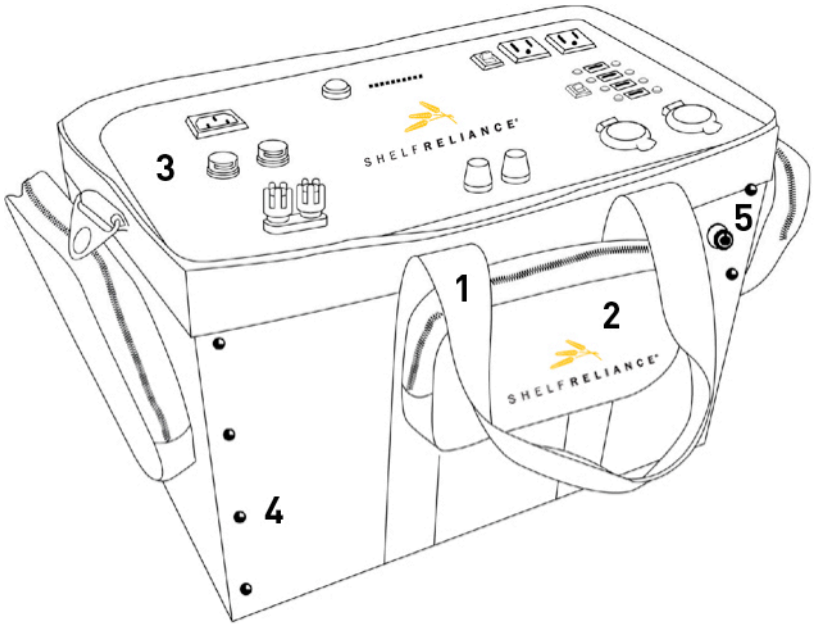
## WARNING!

- **NEVER attempt to open or disassemble the Power Station 1000. Hazardous electrical shock may result.**
- **NEVER leave the Power Station 1000 unattended while charging or leave the unit plugged into a charging source after charging is complete. Overheating and fire may result.**
- **NEVER let the Power Station 1000 get wet or expose to harsh weather conditions or operating environments.**

## CAUTION!

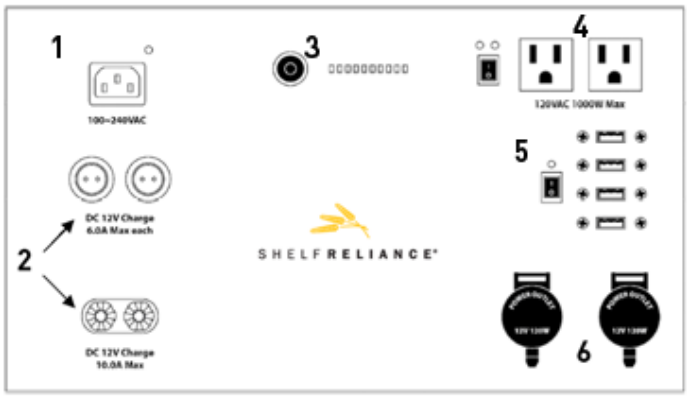
- **ALWAYS allow adequate ventilation & NEVER obstruct the air vents on your Power Station 1000 during use.**
- **ALWAYS follow charging and output voltage ratings as noted on the faceplate of the Power Station 1000.**
- **ONLY use 12VDC regulated power sources for charging the Power Station 1000.**

# Orientation




1. **The Power Station 1000 carry-bag: The Power Station 1000 Carry-bag is designed to stay on your unit permanently. Zip closed when not in use.**
2. **Removable Storage Pouches: 3 removable pouches attach to case with Velcro for storage.**
3. **Console: The console has all of the connectors and switches needed to charge and use your Power Station 1000. Keep covered when not in use.**
4. **Ventilation Areas: There are ventilation areas on both sides towards the bottom of the Power Station 1000, as well as a fan and ventilation area on the front and back. Keep all ventilation areas free of obstructions during use to ensure proper operation.**
5. **Master Key: The Master Key connects or disconnects power to the Power Station. To turn on the Power Station 1000, insert master key and while pushing in gently, turn clock-wise 90 degrees. Remove key during transport, storage, or to prevent unwanted tampering or use.**

# Orientation




1. **AC Charge input: Plug the wall charging cord in here. LED is red while charging; turns green when charge is complete. Charger automatically switches off when charge is complete. Input 100-220VAC.**
2. **DC Charge inputs: Aviation Connectors (2) Plug in solar panel, car charging cord, or other DC charging sources here. LED glows red when charging source is connected.**
   **Note: Red LED will NOT switch OFF when charging is complete.**
3. **Charge status Indicator: Push green button to check battery charge state. All LEDs = full charge.**
   **Note: Shows approximate charge state only.**
4. **120VAC Outlets: Plug in AC devices here. Green LED = Normal operation. Red LED = fault: short, low battery, or overload. Switch off and then on again to reset after fault. 1000W output.**
5. **USB Charging outlets: Plug in USB devices and charge cell phones here. 5V 1A/2.1A max output.**
6. **12VDC Outlet: 12V: Plug in 12VDC devices here.**

# First-time Setup

1. **Check to make sure that all of the parts of the Power Station 1000 are present.**

   **The Power Station 1000 comes with:**

   - **Power Station 1000 + Shoulder Strap**
   - **(1) Master Key (Red)**
   - **(1) USB LED Flex-light**
   - **(1) Universal Cell Phone Charge Cable**
   - **(1) AC Charging Cord**

3. **To switch on your Power Station 1000, insert the red master key into the master key hole; push and rotate the key 90° clock-wise. Note: The master key must be in the ON position for all charging and powering functions. Remove key when not in use.**

4. **The Power Station 1000 is shipped fully charged. Push the green charge status indicator button on the top console to check the battery charge state; all lights will illuminate to show a full charge.**

5. **Unwrap the shoulder strap and clip the shoulder strap into the shoulder strap rings on either side of the carry-bag.**

6. **Your Power Station 1000 is now ready to use.**

**For best results, please remember to:**

- **Switch OFF power switches when not in use!**

- **Always charge your Power Station 1000 after each use, especially before storing it for long periods of time!**

# Charging the Power Station 1000

**To charge your Power Station 1000 from an AC wall outlet:**

- **Plug the included AC charging cord into the AC Charge socket on the top interface and then plug the cord into the wall outlet.**
- **The AC Charge LED lights up red while charging and turns green when charge is complete. Unplug charging cord when charge is complete.**

**To charge your Power Station 1000 from a DC charging source:**

- **Connect the red (+) and black (-) wires from the DC charging source to the red and black sides of the DC Charge Input by unscrewing the red and black terminals and inserting the wires into the holes on the terminal posts. Tighten snugly.**

- **If the charging accessory has an aviation connector, plug the connector into either of the DC charge sockets and tighten the locking ring snugly.**

- **NOTE: DC Charge Input LED lights up red when charging– the red LED does NOT turn off when charge is complete.**

## Solar Panel

- **No solar charge controller is needed. DC Charge sockets are rated for MAX 100W solar panel per socket. (2 x 100W Solar Panels = 200W MAX)**
- **For best results, place solar panel in direct sunlight**

**Warning! Do NOT leave DC charging sources connected to the Power Station 1000 after charging is complete. Overheating and fire may result.**

# Powering Your Devices

**The Power Station 1000 is compatible with a large range of appliances and electronic devices. Please check your appliances and electronic devices to verify that the voltage and power requirements are compatible with the power outputs on the Power Station 1000 BEFORE attempting to power them.**

**AC POWER**

- **Turn the switch next to the AC outlet ON. The inverter inside requires a few seconds to power up; the green LED above the switch will light up when the system is ready.**

- **Plug your appliance or electronic device into the AC outlet. Use as you would a regular wall outlet.**

**NOTE: A fault is indicated by the output power of the AC outlet switching off, and the Red LED lighting up. A fault indicates a short in the appliance, power overload, or low battery. To reset the fault, switch the AC Outlet switch OFF and then switch ON again.**

**USB Outlets**

- **Plug in device(s) and switch on power switch. Switch off power switch when not in use.**
- **iPad-designated outlets provide up to 2.1 A each.**
- **USB-designated outlets provide up to 1.0 A each.**

**12VDC Outlets**

- **To use the 12VDC outlet, simply flip open the protective outlet cover, and plug in your device– the 12VDC outlet is always ON. When you are done powering your device, unplug your device and close the outlet protective cover. Each socket is rated for up to 10A each.**

# Regular Use / Maintenance

**A long service life and the long-term reliability of the Power Station 1000 will depend upon how well you care for and maintain it. Follow the instructions below to maximize the service life and reliability of the Power Station 1000:**

**Charge after each use**

**Charging after each use will maximize the battery life and ensure that it is al-ways ready to use when needed.**

**Charge regularly**

**To maximize the life of the Power Station 1000, perform an AC charge (charge until the AC Charge LED turns green) at least once every three months.**

**Fully Charge before Storage**

**Ensure the Power Station 1000 is fully charged before storing it for an extended period of time. Storing for an extended period of time when not fully charged might shorten the life of your battery.**

**Keep clean and free from dust and debris**

**In order to prevent premature damage or failure, operate the Power Station 1000 in a clean environment that is free from dust and debris. Zip the carry -bag closed when not in use.**

**Keep out of the sun**

**To receive maximum protection and functionality from the Power Station 1000 and carry-bag, keep it out of direct exposure to the sun and other harsh environments or operating conditions.**

# FAQs

**Q: Is it safe to use my Power Station 1000 in enclosed places like a room or tent?**

**A: Yes. It is perfectly safe to use in en-closed areas as long as it is operated according to the instructions and limitations outlined in this manual.**

**Q: Can I use my Power Station 1000 to power my CPAP machine?**

**A: The Power Station 1000 can safely power most CPAP machines on either AC or DC. However, ALWAYS check with your CPAP manufacturer prior to use.**

**Q: Can I power a device AND charge my Power Station 1000 simultaneously?**

**A: Yes. Simply plug in a device and charging source.**

**Q: What DC charging sources can be used to charge my Power Station 1000?**

**A: Solar panels; hand-crank generators; micro-hydro turbines; steam engine generators and many more!**

**Q: Is the Power Station 1000 weatherproof?**

**A: Although safely protected by the carry-bag, it is NOT water or weatherproof and should be protected from such environments.**

**Q: How long can I store my Power Station 1000 before I need to charge it again?**

**A: The Power Station 1000 will safely hold a charge for up to one year, however, we recommend using often, and recharging it fully at least once every 3 months.**

# Troubleshooting

**The Battery Status Indicator won't light up when I push the green button.**

- **Internal battery is too low – Charge needed**
- **Master-key is off – Insert and switch on master key**

**The red LED above the 120VAC outlet switch lights up and there is no power from the outlet.**

- **Low Battery– Check charge state; charge battery**
- **Load is too high– Turn down appliance or check that appliance power ratings are less than 1000W**
- **Overheating– Remove any obstructions from vents**

**Battery Status Indicator lights give different readings at different times without charging or using any stored power.**

- **Battery Status Indicator provides approximate charge state only; Batteries voltage settles after charging. For an accurate battery charge state reading, test charge state two hours after charging.**

**Red DC charging LED will not light up, even though my charging source is plugged in.**

- **Input polarity is reversed– Reverse input polarity**
- **10A Charging fuse is blown– Replace fuse**
- **Charging source voltage is less than the Power Station 1000 battery voltage– Try a different charging source**

**12VDC outlet won't work**

- **The Power Station 1000 Battery low– Charge battery**
- **Master-key is off – Insert and switch on master key**

# Technical Specifications

**Product Specifications:**

**Dimensions: (L x W x H) 18" x 10" x 12"**
**Weight: 40.0 lbs.**

**Internal Advanced-Lithium Battery Pack:**

**Voltage: 12.8V**
**Capacity: 50Ah (600Wh)**
**Cycle life: 2,000+ cycles**
**Minimum charge time: < 2.5 hrs**
**Charge retention: >12 months**

**AC Inverter:**

**Output: 110VAC Pure Sine Wave**
**1000W Continuous, 2000W Peak**

**AC Charger:**

**Charge Current: 20.0A**
**Charge time: Approximately 3 hrs.**

**Integrated Charge controller:**

**Input Current: 20.0A**
**Low voltage cutoff: 10.5V**
**High voltage cutoff: 15.0V**

**Outputs:**
**(2) 120VAC (1000W/2000W Continuous/Peak)**
**(2) USB Charging 5.0VDC 1000mA Max**
**(2) USB I-pad Charging 5.0VDC 2.1A Max**
**(2) 12VDC 10A Max (120W each)**

# Contact Us

## Please contact us for new product up-dates, usage tips, customer service or technical support:

## Phone: 801.756.9902

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